

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18 (Canceled)

Claim 19 (Previously added): An isolated CD39L4 polypeptide comprising the amino acid sequence of SEQ ID NO: 6 or the mature protein portion thereof.

Claim 20 (Currently amended): An isolated polypeptide having phosphohydrolase activity comprising ~~an enzymatically active fragment of~~ the amino acid sequence of SEQ ID NO: 6 or the mature protein portion thereof.

Claim 21 (Currently amended): An isolated polypeptide having phosphohydrolase activity comprising an amino acid sequence that has at least ~~about~~ 90% sequence identity to SEQ ID NO: 6.

Claim 22 (Currently amended): An isolated polypeptide having phosphohydrolase activity comprising an amino acid sequence encoded by a polynucleotide that hybridizes under highly stringent conditions, wherein said conditions are hybridization to a filter-bound DNA in 0.5 M NaHPO₄, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C, and washing in 0.1X SSC/0.1% SDS at 68°C, to the nucleotide sequence of SEQ ID NO: 5 or its complement.

Claim 23 (Previously added): A composition comprising the polypeptide of any one of claims 19-22 and a carrier.

Claim 24 (Currently amended): The polypeptide according to any one of the claims 19-22 that comprises amino acid residues 47-68, 123-138, 167-187 ~~and~~ or 194-214 of SEQ ID NO: 6.